

Review Sheet: Chapter 1 & 2 Test: Measurement & the Scientific Process

Physical Science - Energy

Name_____Period____

1. How many significant digits are in the following measurements?

- a. 1300 m
- b. 3.20 g
- c. 0.00065 km
- d. 20 Fir trees
- e. 30 ml
- f. 30. ml
- g. 30.0 ml

2. Define the following terms:

- a. Objective evidence
- b. Significant digits
- c. Technology
- d. Engineer
- e. Distance
- f. English system

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g. SI

h. Inquiry

i. Scientific method

j. Deduce

k. Repeatable

l. Measurement

m. Precision

n. Accuracy

o. Resolution

p. Unit

q. Prototype

r. Experiment

s. System

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t. Variable

u. Experimental variable

v. Control variable

w. Trial

x. Hypothesis

y. Theory

z. Natural law

aa. Graph

bb. Direct relationship between variables

cc. Inverse relationship between variables

dd. Independent variable

ee. Dependent variable

ff. Basic SI unit of length

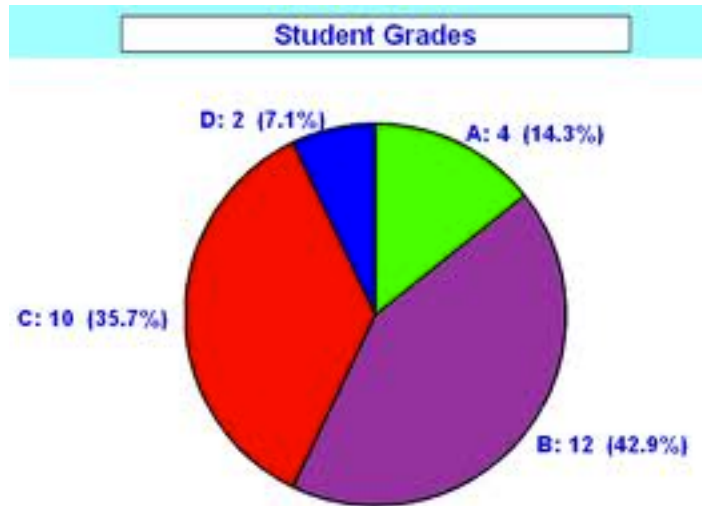
gg. Basic SI unit of mass

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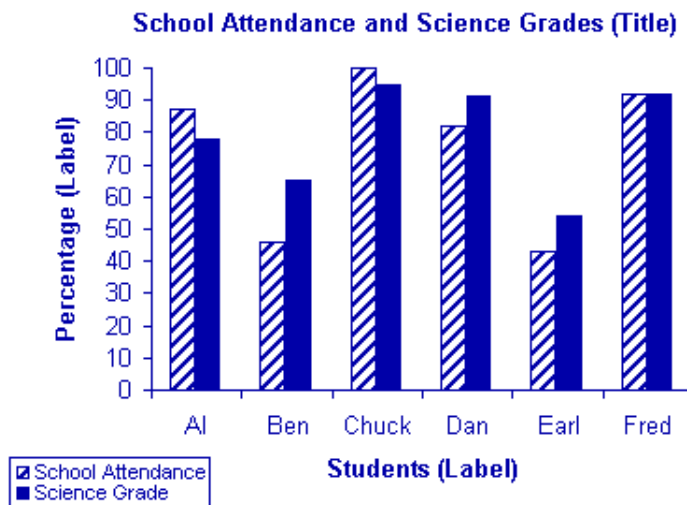
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hh. Basic SI unit of liquid volume

3. What type of graph is illustrated below? What kind of data is shown in this type of graph?



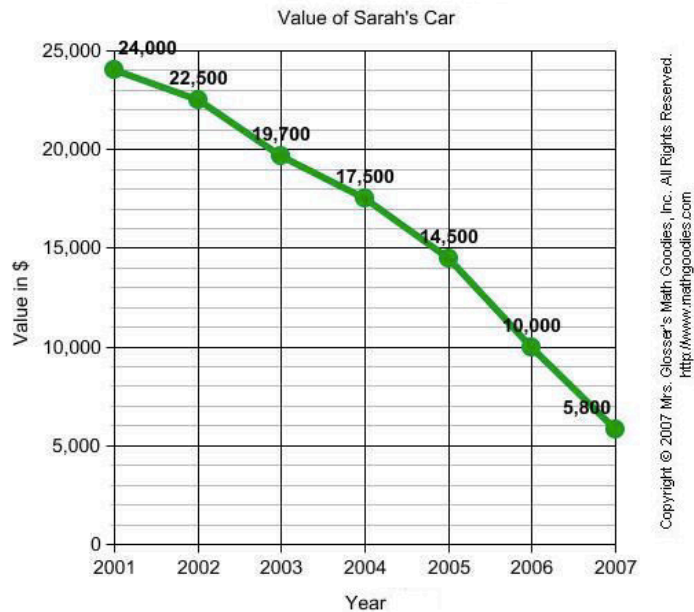
4. What type of graph is illustrated below? What kind of data is shown in this type of graph?



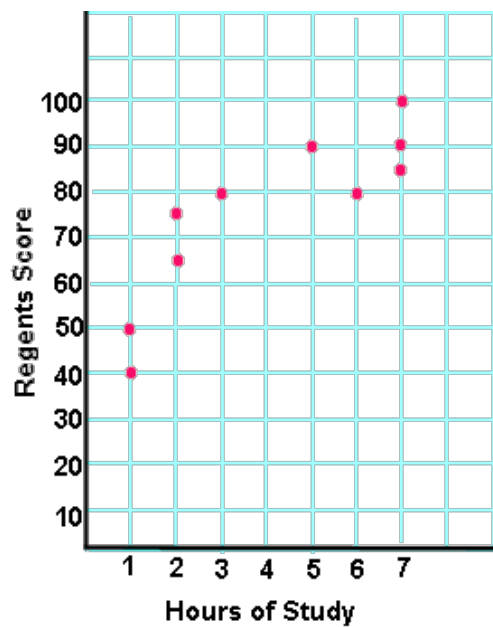
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5. What type of graph is illustrated below? What kind of data is shown in this type of graph?



6. What type of graph is illustrated below? What kind of data is shown in this type of graph?



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7. Make the following conversions:

a. 8550 mm = _____ m

b. 0.3 cm = _____ mm

c. 9450 g = _____ kg

d. 800 mg = _____ g

e. 150 mL = _____ L

f. 0.00065 km = _____ mm

8. Which is largest? (circle the correct answer)

Millimeter, decimeter, Dekameter, centimeter

9. Are scientific theories unchangeable? Why or why not?

10. What is the most important tradition in science?